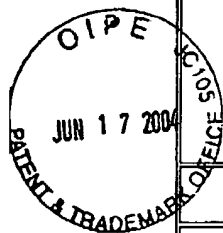


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U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
TMN	3,696,618	10-10-72	Boyd et al			
	3,969,932	7-20-76	Rieger et al			
	4,033,122	7-05-77	Masaki et al			
	4,036,014	7-19-77	Ariga			
	4,178,883	12-18-79	Herth			
	4,251,989	2-24-81	Norimatsu et al			
	4,416,497	11-22-83	Brandsness et al			
	4,622,809	11-18-86	Abthoff et al			
	4,677,955	7-7-87	Takao			
	4,854,123	8-8-89	Inoue et al			
✓	4,884,066	11-28-89	Miyata et al			
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
TMN	62-97630	05-07-1987	JP			Abstract only
TMN	62-117620	05-29-1987	JP			Abstract only
OTHER DOCUMENTS						
TMN	JOE THEIS et al, "An Air/Fuel Algorithm To Improve The Nox Conversion Of Copper-Based Catalysts", SAE Technical Paper No. 922251, October 19-22, 1992, pp. 77-89					
TMN	Y. KANEKO et al, "Effect of Air-Fuel Ratio Modulation on Conversion Efficiency of Three-Way Catalysts", INTER-INDUSTRY EMISSION CONTROL PROGRAM 2 (IIEC-2) PROGRESS REPORT NO. 4, SAE Technical Paper No. 780607, June 5-9, 1978, pp. 119-127					
TMN	ALAN F. DIWELL, "Engineered Control Strategies For Improved Catalytic Control of Nox in Lean Burn Applications", SAE Technical Paper No. 881595, 1998, pp. 1-11					
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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
TMN	4,887,576	12-19-89	Inamoto et al			
	4,913,122	4-3-90	Uchida et al			
	4,915,080	4-10-90	Nakaniwa et al			
	4,964,272	10-23-90	Kayanuma			
	5,009,210	4-23-91	Nakagawa et al			
	5,059,947	10-22-91	Kato et al			
	5,088,281	2-18-92	Izutani et al			
	5,097,700	3-24-92	Nakane			
	5,165,230	11-24-92	Kayanuma et al			
	5,174,111	12-29-92	Nomura et al			
	5,189,876	3-2-93	Hirota et al			
	5,201,802	4-13-93	Hirota et al			
↓	5,209,061	5-11-93	Takeshima et al			
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
TMN	64-53042	03-01-1989	JP			Abstract only
TMN	0351197	01-17-1990	EP			
OTHER DOCUMENTS						
TMN	ALLEN H. MEITZLER, "Application of Exhaust-Gas-Oxygen Sensors to the Study of Storage Effects in Automotive Three-Way Catalysts", SAE 800019, February 25-29, 1980, pp. 13-21					
↓	W.H. HOLL, "Air Fuel Control to Reduce Emissions, I. Engine-Emissions Relationships", SAE 800051, February 25-29, 1980, pp. 1-10					
↓	WEI-MING WANG, "Air-Fuel Control to Reduce Emissions, II. Engine-Catalyst Characterization Under Cyclic Conditions", SAE 800052, February 25-29, 1980, pp. 1-13					
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TMN	5,222,471	6-29-93	Stueven				
	5,233,830	8-10-93	Takeshima et al				
	5,267,439	12-7-93	Raff et al				
	5,270,024	12-14-93	Kasahara et al				
	5,272,871	12-28-93	Oshima et al				
	5,325,664	12-28-93	Seki et al				
	5,331,808	7-26-94	Koike				
	5,331,809	7-26-94	Takeshima et al				
	5,335,538	8-9-94	Blischke et al				
	5,341,643	8-30-94	Hamburg et al				
	5,357,750	10-25-94	Ito et al				
	5,377,484	1-3-95	Shimizu				
✓	5,402,641	4-4-95	Katoh et al				
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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES	NO
TMN	2-30915	02-01-1990	JP			Abstract only	
TMN	2-33408	02-02-1990	JP			Abstract only	
TMN	2-207159	08-16-1990	JP			Abstract only	
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TMN	CHRISTOPHER D. DE BOER et al, "Engineered Cntrol Strategies for Improved Catalytic Control of Nox in Lean Burn Applications", SAE 881595, October 10-13, 1988, pp. 3-10						
TMN	TOOSHIKI YAMAMOTO et al, "Dynamic Behavior Analysis of Three Way Catalytic Reaction", JSAE 882072-882166, pp. 1-10						
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TMW	5,410,873	5-2-95	Tashiro			
	5,412,945	5-9-95	Katoh et al			
	5,412,946	5-9-95	Oshima et al			
	5,414,994	5-16-95	Cullen et al			
	5,419,122	5-30-95	Tabe et al			
	5,423,181	6-13-95	Katoh et al			
	5,426,934	16-27-95	Hunt et al			
	5,433,074	7-18-95	Seto et al			
	5,437,153	8-1-95	Takeshima et al			
	5,444,977	8-29-95	Kawabata			
	5,448,887	9-12-95	Takeshima et al			
	5,450,722	9-12-95	Takeshima et al			
↓	5,452,576	9-26-95	Hamburg et al			

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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES	NO
TMN	3-135417	06-10-1991	JP			Abstract only	
TMN	0444783	09-04-1991	EP				
TMN	0503882	09-16-1992	EP				

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
TMN	5,472,673	12-5-95	Goto et al			
	5,473,887	12-12-95	Takeshima et al			
	5,473,890	12-12-95	Takeshima et al			
	5,483,795	1-16-96	Kato et al			
	5,531,972	7-2-96	Rudy			
	5,544,482	8-13-96	Matsumoto et al			
	5,551,231	9-3-96	Tanaka et al			
	5,554,269	9-10-96	Joseph et al			
	5,564,283	10-15-96	Yano et al			
	5,577,382	11-26-96	Kihara et al			
V	5,595,060	1-21-97	Togai et al			

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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES	NO
TMN	0503882	09-16-1992	EP				
TMN	5-26080	02-02-1993	JP			Abstract only	
TMN	5-106493	04-27-1993	JP			Abstract only	

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
TMN	5,598,703	2-4-97	Hamburg et al			
	5,617,722	4-8-97	Takaku			
	5,622,047	4-22-97	Yamashita et al			
	5,626,014	5-6-97	Hepburn et al			
	5,626,117	5-6-97	Wright et al			
	5,642,703	7-1-97	Stockhausen et al			
	5,642,709	7-1-97	Ozaki et al			
	5,655,363	8-12-97	Ito et al			
	5,657,625	8-19-97	Koga et al			
	5,657,732	8-19-97	Wolters et al			
	5,693,877	12-02-97	Ohsuga et al			
↓	5,713,199	2-3-98	Takeshima			

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TMN	5-106494	04-27-1993	JP			Abstract only	
TMN	0580389	01-26-1994	EP				
TMN	6-58139	03-01-1994	JP			Abstract only	

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
TMN	5,715,679	2-10-98	Asanuma et al			
	5,722,236	3-3-98	Cullen et al			
	5,724,808	3-10-98	Ito et al			
	5,727,528	3-17-98	Hori et al			
	5,729,971	3-24-98	Matsuno et al			
	5,732,554	3-31-98	Sasaki et al			
	5,735,119	4-7-98	Asanuma et al			
	5,740,669	4-21-98	Kinugasa et al			
	5,743,084	4-28-98	Hepburn			
	5,746,049	5-5-98	Cullen et al			
↓	5,746,052	5-5-98	Kinugasa et al			
FOREIGN PATENT DOCUMENTS						
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TMN	6-264787	09-20-1994	JP			Abstract only
TMN	7-97941	04-11-1995	JP			Abstract only
TMN	2307313	05-21-1997	GB			
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TMN	5,752,492	5-19-98	Kato et al			
	5,758,493	6-2-98	Asik et al			
	5,792,436	8-11-98	Feeley et al			
	5,802,843	9-8-98	Kurihara et al			
	5,803,048	9-8-98	Yano et al			
	5,831,267	11-3-98	Jack et al			
	5,832,722	11-10-98	Cullen et al			
	5,842,339	12-1-98	Bush et al			
	5,842,340	12-1-98	Bush et al			
	5,865,027	2-2-99	Hanafusa et al			
	5,877,413	3-2-99	Hamburg et al			
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
TMN	19607151	07-10-1997	DE			Abstract only
TMN	98/27322	06-25-1998	WP			
TMN	0859232	08-19-1998	EP			
OTHER DOCUMENTS						
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TMN	5,910,096	6-8-99	Hepburn et al			
	5,929,320	7-27-99	Yoo			
	5,938,715	8-17-99	Zang et al			
	5,953,907	9-21-99	Kato et al			
	5,966,960	10-19-99	Hatano et al			
	5,970,707	10-26-99	Sawada et al			
	5,974,788	11-2-99	Hepburn et al			
	5,974,791	11-02-99	Hirota et al			
	5,974,793	11-2-99	Kinagusa et al			
	5,974,794	11-2-99	Gotoh et al			
✓	5,979,161	11-9-99	Hanafusa et al			
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
TMN	11-101154	4-13-99	JP			Abstract only
TMN	2000-282942	10-10-00	JP			Abstract only
OTHER DOCUMENTS						
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U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
TMN	5,983,627	11-16-99	Asik			
	5,992,142	11-30-99	Pott			
	5,996,338	12-07-99	Hirota			
	6,003,308	12-21-99	Tsutsumi et al			
	6,012,282	1-11-00	Kato et al			
	6,012,428	1-11-00	Yano et al			
	6,014,859	1-18-00	Yoshizaki et al			
	6,023,929	2-15-00	Ma			
	6,026,640	2-22-00	Kato et al			
	6,058,700	5-9-00	Yamashita et al			
↓	6,073,440	6-13-00	Douta et al			
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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
TMN	6,082,176	7-4-00	Kondo et al			
	6,092,369	7-25-00	Hosogai et al			
	6,105,365	8-22-00	Deeba et al			
	6,119,449	9-19-00	Kohler			
	6,128,899	10-10-00	Oono et al			
	6,134,883	10-24-00	Kato et al			
	6,138,453	10-31-00	Sawada et al			
	6,145,305	11-14-00	Itou et al			
	6,148,612	11-21-00	Yamashita et al			
	6,161,378	12-19-00	Hanaoka et al			
✓	6,167,695	1-2-01	Itou et al			
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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
TMW	6,214,207	4-10-01	Miyata et al			
	6,263,666	7-24-01	Kubo et al			
	6,309,536	10-30-01	Inagaki et al			
	6,311,480	11-6-01	Suzuki et al			
V	6,375,828	4-23-02	Ando et al			
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